Unde	the Par	perwork Reduction Act of 1995, no per	sons am required (.C.U es e est bnogaen e	Patent and Trade disclose of Inform	amark Office: U. ation unless it o	S. DEPARTMENT OF COMMER(musing a yalld OMB control numb	31 CE 87.
					Complete if Known			
Sub	apprie to	r form 1449/PTO		Application	n Number	31		
			OUDE	Filing Date	B	July 10, 2		٦
		RMATION DISCLO		First Nam	ed Inventor		o Shibuya	
S	TAT	EMENT BY APPLI	CANT	Art Unit		1712		
	(Use as many sheets as necessary)				Nama	Moore, N	Margaret G.	\Box
Shani	Sheet 1 of 1				Docket Number	372106-	102	フ
				100	·····			
Eveminer	xeminer Cite Document Number		Publication Di	ENT DOCUME	Name of Patents	8 or	Pages. Columns. Lines. Wher	0
Initials*	Addition The Description The		MM-00-YYY		efficient of Cilod De	oovment	Relevant Passages or Releval Figures Appear	nt
Mh		US- 6,074,962-A	06-13-2000	Sakamo	oto et al.		(corresponds to KR	
////		US-					patent cited)	
-₩	-	US:	1					
		US-	-					
		U\$-	+	 -				_
	 	US-	 					
	 -	US•	 					_
	 	U\$-		-			· · · · · · · · · · · · · · · · · · ·	_
	 	US-					-	-
	 -	US• .						_
	├							
	<u> </u>	US-				·		
		US-						
	<u>l</u>	uŝ-					<u> </u>	
		US-						
		US-						
		us-						
~		US-						
		US-	7		·			
		U\$-						
							<u> </u>	
Examiner	Cite	Foreign Patent Document	FOREIGN	Publication		Patentee or	Pages, Columns, Lines,	$\overline{}$
Inidala"	No.			Date MM-DD-YYYY		ited Document	Where Relevant Passages Or Relevant Figures Appear	+
m		Country Code ³ "Number * Kind Code ³ (# KR-266060		11-01-2000				F
/// /	 -				 		 	۳
V	1-	 			<u> </u>			t
	 	-						╄
-	┼				 			┢
	┼							╆
					<u> </u>		<u> </u>	<u> </u>
Examiner Signature		Maria	11/1			Considered	119/26	

considered, include copy of this folim with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents all https://www.luspio.ogy.com/PEP-901-04. Enter Office that issued the document by the wo-latter code (WIPO Standard ST.3). For Japanose patent documents, this judication of the year of the reign of the Emperor must precede the serial number of the patent document. Your of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mork here it English language Translation is olitabled.

This confection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to tile (and by the USPTO to process) an application. Confidentiality is governed by 36 U.S.C. 122 and 57 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary dopending upon the individual case. Any comments on the sound of time you require to complete this form enaltar suggestions for reducing (the burden, should be sent to the Chief Information Officer, U.S. Palent and Trademark Office, P.O. Box 1450, Alaxandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND To: Commissioner for Patents, P.O. Box 1450, Alaxandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

•4

DEC 0 3 2004

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

nder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Cor	mplete if Known	
Application Number	10/616,731	
Filing Date	July 10, 2003	
First Named Inventor	Shibuya	
Art Unit	1775	
Examiner Name	Lam, Cathy	
Attorney Docket Number	372106-102	

				DOCUMENTS		
Examiner Initials*	Cite No.	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Rind Code		 		
MN	A	^{US-} 5,840,821	11-24-1998	Kawasaki Steel Corp		
U		US-				
	1	US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

		FORE	IGN PATENT DOCU	MENTS	· · · · · · · · · · · · · · · · · · ·	
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
mm	В	WO 95/24639	09-14-1995	Kawasaki Steel		
	O	JP 2000-340651	12-8-2000	Hitachi Chem		V
V	۵	JP 2003-253206	10-9-2003	Hitachi Chem		V
	Ε	JP 2001-210633	08-3-2001	Tokyo Ohka		V
•						
		0-				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Oraw line through citation if het in conformance and not considered. Include dopy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documens at www.uspto.gov or MPEP 901.04. 'Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language

Date

Translation is attached.

Examiner

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Pagework Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitut	Substitute for form 1449/PTO				Complete if Known		
COSSIIIO				Application Number	10/616,731		
INFO	DRMATION	DIS	CLOSURE	Filing Date	July 10, 2003		
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Shibuya		
	(Use as many she	ote se n	ocace and	Art Unit	1775		
	lose as many sne	CIS 03 //		Examiner Name	Lam, Cathy		
Sheet	2	of	2	Attorney Docket Number	372106-102		

	NON PATENT LITERATURE DOCUMENTS	
Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
F	Japanese Office Action; mailing date 9-14-2004	~
	·	
		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

	$\overline{}$				
Examiner Signature	tT	h	Date Considered	1/19/0	6
*EVANINED: Initial if coffeenes appointed	200	annet challed in the conference with t	MOCO COO C		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if net in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



SUPPLEMENTAL INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

			
ATTY DOCKET NO.	SERIAL NO.		
372106-102 (337559)	10/616,731		
APPLICANT			
SHIBUYA et al.			
FILING DATE	GROUP		
July 10, 2003	1712		

		Ţ	J.S. PATENT	DOCUMENTS			
EXAMINER INITIALS	Cite No.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
mm	AA	6,589,644	07/08/2003	Yamada et al.	428/312.6	1	/

			FOREIGN PATENT	DOCUMENT	S	
			FOREIGN PATENT DOCUMENT (inc. Country Code, Number, Kind Code)	PUBLICATION DATE	APPLICANT OR PATENTEE	
M AB		AB	JP 2000-77399 A	03/14/2000	Katayama et al	
V		AC	JP 2000-077399 (translation)	03/14/2000	Katayama et al	

OTHER D	OCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

DATE CONSIDERED 119/06

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant